

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by:
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GENERAL INFORMATION:

Name: Publishers Printing Company-Lebanon Junction Facility
Address: 13487 South Preston Highway
Lebanon Junction, KY 40150
Date application received: February 27, 2008
SIC/Source description: 2721/Periodicals: Publishing, or Publishing and printing
AFS (10-digit) Plant ID: 21-029-00032
AI #: 470
Activity # : APE20080001
Permit number: V-05-014R1

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
X_Minor	<input checked="" type="checkbox"/> Synthetic minor
_ Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not a major modification per 401 KAR 51:017, 1(23)(b) or 51:052 1(14)(b)	

MISCELLANEOUS:

☐ Acid rain source
☐ Source subject to 112(r)
☐ Source applied for federally enforceable emissions cap
☐ Source provided terms for alternative operating scenarios
☐ Source subject to a MACT standard
☐ Source requested case-by-case 112(g) or (j) determination
☐ Application proposes new control technology
☒ Certified by responsible official
☒ Diagrams or drawings included
☐ Confidential business information (CBI) submitted in application
☐ Pollution Prevention Measures
☒ Area is non-attainment (list pollutants): PM 2.5

EMISSIONS SUMMARY:**New source wide emissions:**

POLLUTANT	POTENTIAL EMISSIONS (TPY)	ALLOWABLE EMISSION (TPY)
Carbon Monoxide (CO)	22.1	NA
Nitrogen Oxides (NO _x)	26.31	NA
Sulfur Dioxide (SO ₂)	0.16	NA
Particulate Matter (PM/PM ₁₀)	1.985	NA
EP 07 (Press 411)	16.35	20.0*
EP 08 (Press 409)	9.8	36.0**
EP 09 (Press 410)	14.91	20.0***
EP 13 (Press 416)	9.75	10.0****
EP 16 (Press 418)	9.36	10.0*****
VOC (The rest of the source)	103.03	No allowable was established
Cumene	0.34	NA
Ethylene Glycol	27.01	NA
Naphthalene	47.28	NA
Xylene	0.184	NA
Combined HAPs	74.4	NA

Emission from New Construction EP 16 (Press 418):

POLLUTANT	POTENTIAL EMISSIONS (TPY)	ALLOWABLE EMISSION (TPY)
Carbon Monoxide (CO)	1.1	NA
Nitrogen Oxides (NO _x)	1.31	NA
Sulfur Dioxide (SO ₂)	0.01	NA
Particulate Matter (PM/PM ₁₀)	0.1	NA
VOC	9.36	10.0*****
Ethylene Glycol	0.55	NA
HAP	0.55	NA

***** VOC emission shall not equal or exceed 10.0 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:017, Prevention of significant deterioration of air quality.

Existing facility:

POLLUTANT	POTENTIAL EMISSIONS (TPY)	ALLOWABLE EMISSION (TPY)
Carbon Monoxide (CO)	21.0	NA
Nitrogen Oxides (NO _x)	25.00	NA
Sulfur Dioxide (SO ₂)	0.15	NA
Particulate Matter (PM/PM ₁₀)	1.885	NA
EP 07 (Press 411)	16.35	20.0*
EP 08 (Press 409)	9.8	36.0**
EP 09 (Press 410)	14.91	20.0***
EP 13 (Press 416)	9.75	10.0****
VOC (The rest of the source)	112.68	No allowable was established
Cumene	0.34	NA
Ethylene Glycol	26.46	NA
Naphthalene	47.29	NA
Xylene	0.184	NA
Combined HAPs	74.42	NA

* VOC emission shall not equal or exceed 20 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:017, Prevention of significant deterioration of air quality.

** VOC emission shall not equal or exceed 36 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:017, Prevention of significant deterioration of air quality.

*** VOC emission shall not equal or exceed 20 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:017, Prevention of significant deterioration of air quality.

**** VOC emission shall not equal or exceed 10 tons/year based on a 12 month rolling total to preclude the applicability of 401 KAR 51:052, Review of new sources in or impacting upon non-attainment areas.

SOURCE PROCESS DESCRIPTION:

Publishers Printing Company is an offset lithographic paper printing plant, which prints magazines. Printing takes place on 11 existing offset lithographic presses each with a natural gas fired dryer and propane as a back up fuel. The source is proposing to add one press EP # 16 (Press 418) and removed one press (Press 405) with the minor revision of their Title V permit (V-05-014 R1). Overall, the source will remain a total 11 presses. Insignificant activities consist of a 30,000 gallon propane tank, eighty nine natural gas/propane space heaters, six chillers with cooling towers, five ink jet head cleaning stations, five hot melt magazine binding gluers, maintenance activities of the presses which consist of surface preparation for maintenance painting and a maintenance paint spray booth, a scrap paper collection system, two natural gas fired boilers with propane as backup and a cold solvent cleaner using mineral spirits as the cleaning agent.